```
주차: 10
                          과: 융합전자공학부
                                               학번:2019043890
                                                                   이름:이창민
       clear all, close all
       N = 51;
       n = 0:N-1;
       x1 = \sin(2*pi*0.15*n);
       x2 = \sin(2*pi*0.1*n) + \sin(2*pi*0.3*n);
       x3 = x1.*0.8.^n;
       M = 2;
       y1 = upsample(x1,M);
       L1 = length(y1);
       y2 = upsample(x2,M);
       L2 = length(y2);
       y3 = upsample(x3,M);
       L3 = length(y3);
       f = 0:1/1024:(1024-1)/1024;
       figure(1)
       subplot(3,2,1)
       X1 = fft(x1, 1024);
코드
       plot(f, abs(X1));
       subplot(3,2,2)
       Y1 = fft(y1, 1024);
       plot(f, abs(Y1));
       subplot(3,2,3)
       X2 = fft(x2, 1024);
       plot(f, abs(X2));
       subplot(3,2,4)
       Y2 = fft(y2, 1024);
       plot(f, abs(Y2));
       subplot(3,2,5)
       X3 = fft(x3, 1024);
       plot(f, abs(X3));
       subplot(3,2,6)
       Y3 = fft(y3, 1024);
       plot(f, abs(Y3));
```

